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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,912	08/20/2001	Nghi Van Nguyen	05725.0593-00	4343
7590 10/27/2003		EXAMINER		
Finnegan, Henderson, Farabow,			ELHILO, EISA B	
Garrett & Dunner, L.L.P.				
1300 I Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20005-3315			1751	

DATE MAILED: 10/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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ì	Application No.	Applicant(s)
	09/931,912	NGUYEN ET AL.
Offic Action Summary	Examiner	Art Unit
	Eisa B Elhilo	1751
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3' after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) de - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	TION. 7 CFR 1.136(a). In no event, however, may a ation. 1ys, a reply within the statutory minimum of the period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. IBANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed	on <u>21 August 2003</u> .	
2a) This action is FINAL . 2b)		
Since this application is in condition fo closed in accordance with the practice Disposition of Claims		
4)⊠ Claim(s) <u>1-131</u> is/are pending in the ap	plication.	
4a) Of the above claim(s) 43-131 is/are	withdrawn from consideration.	•
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-42</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	n and/or election requirement.	
Application Papers		
9) The specification is objected to by the E		_
10) ☐ The drawing(s) filed on is/are: a)[
Applicant may not request that any objecti		
11) The proposed drawing correction filed of		disapproved by the Examiner.
If approved, corrected drawings are requir	• •	
12) The oath or declaration is objected to by	the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		0.440(.) (1) (0
13) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C	. § 119(a)-(d) or (t).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority do		
2. Certified copies of the priority do		
 3. Copies of the certified copies of tagget application from the Internation * See the attached detailed Office action for the second sec	onal Bureau (PCT Rule 17.2(a))	•
14) Acknowledgment is made of a claim for o	domestic priority under 35 U.S.C	. § 119(e) (to a provisional application).
a) The translation of the foreign langu		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Pape	-948) 5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)
S. Patent and Trademark Office		



Art Unit: 1751

DETAILED ACTION

- This action is responsive to the applicant's election received by the office on August 21, 2003.
- Applicant's election with traverse to prosecute the invention of Group I. Election of claims 1-42 is acknowledged. Claims 43-131 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention. Therefore, claims 1-42 are pending in this application.
- 3 The traversal is on the ground(s) that the examiner has not demonstrated that examining Group I and II will constitute a serious burden and the search and examination of an entire application can be made without serious burden. This is not found persuasive because the inventions of groups I and II are distinct and they are classified and searched in different classes and subclasses and the search required for each group is not required for the other groups of inventions. Therefore, restriction for examination purposes as indicated is proper. The requirement is still deemed proper and is therefore made FINAL.
- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:



Art Unit: 1751

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 10, 18-19 and 38-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Bore et al (US 3,971,391).

Bore (US' 391) teaches an aqueous hair relaxing composition comprising an alkaline metal of sodium hydroxide and a reducing agent of alkaline-metal sulfites as claimed in claims 1-4, 10, 18-19, 40 (see col. 4, lines 15-57) and cationic surfactants as claimed in claim 38 (see col. 5, lines 47-48), wherein the composition is a oil-in-water emulsion as claimed in claim 39 (see col. 5, lines 63-64). Bore also teaches a heat-activated composition as claimed in claim 41 (see col. 4, lines 24-26). Bore teaches all the limitations of the instant claims. Hence, Bore anticipates the claims.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 6, 11 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bore et al. (US 3,971,391).

Bore (US' 391) teaches an aqueous hair relaxing composition comprising an effective amount of alkaline metal of sodium hydroxide (see col. 12, claim 1) and a reducing agent of alkaline-metal sulfites in a concentration of up to 3 X10⁻² moles per liter which is overlapped with the claimed range as claimed in claims as claimed in claim 11(see col. 4, lines 52-55).



Art Unit: 1751

The instant claims differ form the reference by reciting optimal amounts of the ingredients in the composition.

However, it would have been obvious to one having ordinary skill in the art a the time the invention was made to make such a composition by optimizing the amount of the ingredients in the composition because the reference teaches a composition that comprises an effective amount of alkaline metal hydroxides and alkaline metal sulfites in the amounts which overlapped with the claimed ranges, and, thus, a person of the ordinary skill in the art would optimized the amounts of the ingredients in the composition so as to get the maximum effective amounts and would expect such a composition to have similar properties to those claimed, absent unexpected results.

Claims 7-9, 20-24 and 34-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bore et al. (US 3,971,391) in view of Mathews et al. (US 4,816,246).

The disclosure of Bore (US'391) is summarized above. The reference does not teach a composition that comprises thiols compounds as claimed.

However, the reference teaches a composition comprising sulfite compounds as reducing agents (see col. 4, lines 52-57).

Mathews (US' 246) in analogous art of hair relaxing compositions, teaches a composition comprising ammonium thioglycolate compounds as claimed in claims 7-9 (see col. 2, lines 35-38) and a sequestering agent as complexing agent as claimed in claims 20-21 (see col. 4, line 22) and chelating agents such as ethylene-diamineteetaaxitic acid (EDTA) as claimed in claims 23-24 and 34-37 (see col. 4, line 37) wherein the composition is formulated from water soluble



Art Unit: 1751

components (see col. 7, lines 35-36) which implies that the dissociation is full as claimed in claim 22.

Therefore, in view of the teaching of the secondary reference one having ordinary skill in the art at the time the invention was made would be motivated to modify the primary reference of Bore be incorporating the reducing agent of ammonium thioglycolate compound and the sequestering agent as taught by Mathews to make such a composition. Such modification would be obvious because the primary reference of Bore clearly suggests the use of sulfur-containing compound (see col. 4, lines 52-55) and the secondary reference of Mathews teaches the use of ammonium thioglycolate compounds as reducing agents and sequestering agents which are well known in the art (see col. 4, lines 19-24), thus, a person of the ordinary skill in the art would be motivated to incorporate the ammonium thioglycolate and sequestering compounds in the composition and would expect such a composition to have similar properties to those claimed, absent unexpected results.

8 Claims 12-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bore et al. (US 3,971,391) in view of Au et al. (US 5,872,111).

The disclosure of Bore (US' 391) is summarized above. The reference does not teach at least one cation exchange component (thickeners) as claimed.

However, the primary reference of Bore teaches a composition comprising adjuvants that usually used in creams or gels (see col. 5, lines 66-67).

Au (US' 111) in another analogous art teaches a shampoo composition comprising clay materials such as aluminum silicates as thickeners as claimed in claims 12-14 (see col. 15, lines 5-7), zeolites and aluminosilicates as claimed in claims 15-17 (see col. 20, line 37).



Art Unit: 1751

Therefore, in view of teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of the primary reference by incorporating the thickener components as taught by Au with the reasonable expectation of success because the primary reference of Bore suggest the use of adjuvants that usually known and used in creams and gels and Au suggests the use of these ingredients in the shampoo compositions for rendering such compositions more formulatable, or aesthetically and/or cosmetically acceptable (see col. 14, lines 14-18), and, thus, a person of the ordinary skill in the art would be motivated to incorporate these ingredients in the hair treating composition to make the composition more formulatable and acceptable and, would expect such a composition to have similar properties to those claimed, absent unexpected results.

Claims 25-27 and 29-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bore et al. (US 3,971,391) in view of Mathews et al. (US 4,816,246) and further in view of Au et al. (US 5,872,111).

The disclosures of Bore (US' 391) and Mathews are summarized above. The references do not teach at least one complexing agent component as claimed.

However, the primary reference of Bore teaches a composition comprising adjuvants that usually used in creams or gels (see col. 5, lines 66-67) and Mathews teaches a composition comprising sequestering agents, conditioners, thickeners and other additive that well known in the art (see col. 4, lines 19-25).

Au (US' 111) in another analogous art teaches a shampoo composition comprising tripotassium phosphates and sodium basic silicates (disodium silicates), citric acid as a poly-



Art Unit: 1751

hydroxy-carboxylic acid and amino acids as claimed in claims 25-27 and 29-33 (see col. 10, line 64, col. 14, line 29, col. 25, lines 28 and 50-53).

Therefore, in view of teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of the primary reference by incorporating the complexing components as taught by Au with the reasonable expectation of success because the primary reference of Bore suggest the use of adjuvants that usually known and used in creams and gels and Au suggests the use of these ingredients in the shampoo compositions for rendering such compositions more formulatable, or aesthetically and/or cosmetically acceptable (see col. 14, lines 14-18), and, thus, a person of the ordinary skill in the art would be motivated to incorporate these ingredients in the hair treating composition to make the composition more formulatable and acceptable and, would expect such a composition to have similar properties to those claimed, absent unexpected results.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bore et al. (US 3,971,391) in view of Mathews et al. (US 4,816,246), in view of Au et al. (US 5,872,111).

And further, in view of Plyes et al. (US 2001/0008630 A1).

The disclosures of Bore (US' 391), Mathews (US' 246) and Au (US' 111), are summarized above. The references do not teach sequestering agent of sodium glutamate as claimed.

However, the primary reference of Bore teaches a composition comprising adjuvants that usually used in creams or gels (see col. 5, lines 66-67) and Mathews teaches a composition comprising sequestering agents, conditioners, thickeners and other additives that well known in



Art Unit: 1751

the art (see col. 4, lines 19-25) and Au teaches a composition comprising amino acids (see col. 10, line 64).

Pyles (US' 630) teaches in other analogous art a hair treating composition comprising sodium glutamate as claimed in claim 28 (see page 4, paragraph 0091).

Therefore, in view of teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of the primary reference by incorporating the sequestering agent of sodium glutamate with the reasonable expectation of success because the primary reference of Bore suggest the use of adjuvants that usually known and used in creams and gels and Pyles teaches the use of sodium glutamate in the composition, and, thus, a person of the ordinary skill in the art would be motivated to incorporate sodium glutamate in the hair treating composition as a sequestering agent and, would expect such a composition to have similar properties to those claimed, absent unexpected results.

Conclusion

The remaining references listed on form 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B Elhilo whose telephone number is (703) 305-0217. The examiner can normally be reached on M - F (7:30-5:00) with alternate Friday off.





Art Unit: 1751

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (703) 308-0661. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Eisa Elhilo
Patent Examiner
Art Unit 1751

October 17, 2003